

ABSTRACT OF THE DISCLOSURE

Disclosed is herein a magnetic recording medium useful for high density magnetic recording, which contains an optimum composition of Pt so as to have a uniform local coercivity distribution and grain size distribution, and fine grains, and a method of manufacturing the same. The magnetic recording medium includes a 400 Å $(\text{Co}_{82}\text{Cr}_{18})_{100-x}\text{Pt}_x$ / 1100 Å Ti alloy thin film containing 1 to 14 atom% Pt. Additionally, the method includes a first step of layering a Ti thin film on a glass substrate, a second step of depositing a CoCrPt alloy thin film on the Ti thin film, and a third step of depositing Si_3N_4 on the CoCrPt alloy thin film. At this time, the CoCrPt alloy thin film contains a predetermined composition of Pt controlled by a CoCr alloy target having a Pt chip positioned thereon. Thereby, the magnetic recording medium having microscopic magnetic property and structural property suitable to a high density magnetic recording medium is realized.